

February 28, 2013

To: Hanna Assefa, Industrial Hygiene Consultant  
Inactive Hazardous Sites Branch  
Superfund Section

From: David Ramey, Hydrogeologist  
Inactive Hazardous Sites Branch  
Superfund Section

Re: Health Risk Evaluation Request  
Primrose Ave PCE Contamination (Willow Street Crawlspace & Subslab Air Study)  
Mark T Chappell and Kelly S Chappell – 2828 WILLOW APT 2  
2828 Willow St  
Charlotte, Mecklenburg County  
IHSI ID# NONCD0002912

A health risk evaluation is requested for the subject property. A subslab air sample and a duplicate were collected from the subject property on February 19, 2013. The table below lists detected contaminants and concentrations.

Sample ID	Compound	Concentration $\mu\text{g}/\text{m}^3$	Preliminary Acceptable Soil- gas Concentration (Csg) $\mu\text{g}/\text{m}^3$ Residential
2828 WILLOW APT 2	Benzene	5.7	31.0
	Chloroform	1.5	11.0
	Chloromethane	1.8	188
	Tetrachloroethylene	13.	83.4
	Trichloroethylene	1.2	4.20
	Vinyl chloride	0.097	16.0
DUP 1	Benzene	3.5	31.0
	Carbon tetrachloride	0.44	41.0
	Chloroform	0.54	11.0
	Chloromethane	5.0	188
	Tetrachloroethylene	0.29	83.4

within one order of magnitude of the screening concentrations.

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From: David Ramey, Hydrogeologist  
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Re: Health Risk Evaluation Request  
Primrose Ave PCE Contamination (Willow Street Crawlspace & Subslab Air Study)  
SFH Financial LLC – 2835 APT 1-WILLOW ST  
2835 Willow St, Apt 1  
Charlotte, Mecklenburg County  
IHSI ID# NONCD0002912

A health risk evaluation is requested for the subject property. A crawlspace air sample and a duplicate were collected from the subject property on February 19 and 20, 2013. The table below lists detected contaminants and concentrations.

Sample ID	Compound	Concentration $\mu\text{g}/\text{m}^3$	Preliminary Acceptable Indoor Air Concentration (Cia) $\mu\text{g}/\text{m}^3$ Residential	BACKGROUND WOODS $\mu\text{g}/\text{m}^3$	Possible Explanation for Observed Concentration (See note below table)
2835 APT 1-WILLOW ST	Benzene	<b>0.57</b>	0.310	<b>0.83</b>	* exceeded
	Carbon tetrachloride	<b>0.41</b>	0.410	<b>0.44</b>	* at
	Chloroform	<b>0.10</b>	0.110	0.10	* within one
	Chloromethane	0.58	19.0	1.4	*
	Tetrachloroethylene	0.39	8.30	0.44	*
	Trichloroethylene	<b>0.12</b>	0.42	< 0.11	within one
DUP 2	Benzene	<b>0.57</b>	0.310	<b>0.83</b>	* exceeded
	Carbon tetrachloride	<b>0.43</b>	0.410	<b>0.44</b>	* exceeded
	Chloromethane	0.58	19.0	1.4	*
	Tetrachloroethylene	0.40	8.30	0.44	*

**Bold Concentrations** exceed Preliminary Acceptable Indoor Air Concentration (Cia)  $\mu\text{g}/\text{m}^3$  Residential.

\* = The presence of this Compound in the crawlspace air sample is believed to be a result of background conditions as measured in the BACKGROUND WOODS air sample.

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Inactive Hazardous Sites Branch  
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Re: Health Risk Evaluation Request  
Primrose Ave PCE Contamination (Willow Street Crawlspace & Subslab Air Study)  
Budig Realty LLC – 2310 OLD STEELE CREEK RD  
2310 Old Steele Creek Rd  
Charlotte, Mecklenburg County  
IHSI ID# NONCD0002912

A health risk evaluation is requested for the subject property. A subslab air sample was collected from the subject property on February 19 and 20, 2013. The table below lists detected contaminants and concentrations.

Sample ID	Compound	Concentration $\mu\text{g}/\text{m}^3$	Preliminary Acceptable Soil- gas Concentration (Csg) $\mu\text{g}/\text{m}^3$ Residential
2310 OLD STEELE CREEK RD	Benzene	0.51	31.0
	Carbon tetrachloride	0.16	41.0
	Chloroform	1.4	11.0
	Chloromethane	0.18	188
	Tetrachloroethylene	22.	83.4

within one order of magnitude of the screening concentrations.